

EXHIBIT NO. 601

PROFESSIONAL EXPERIENCE AND BACKGROUND OF

STUART A.T. TRIPPEL_____

WITNESS FOR INDEPENDENT ENERGY PRODUCERS OF IDAHO

Qualifications of Stuart A.T. Trippel Witness for Independent Energy Producers of Idaho

Experience

Principal, Trippel/Mast Consulting LLC
(previously independent consultant)
1997–present

Consultant providing economic and financial analysis and general management consulting, including assistance with regulatory compliance, policy analysis, spreadsheet modeling, research, negotiations, and expert witness services in the areas of rates, cost-of-service, financial and management accounting, industry studies, forecasting, and strategic planning. Clients include utilities, private companies, and law firms. Projects include:

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| ■ Industrial Customers of Idaho Power (through law firms of Richardson & O’Leary, PLLC, Boise, Idaho; and Davis Wright Tremaine, LLP, Boise, Idaho) | Ongoing rate and regulatory consulting services, including review of Idaho Power Company filings and proposals, assistance with risk management issues, power sales contract review, power cost adjustment clause review, review of load reduction programs and emergency rate relief filing, analysis of contract and market-based rates, analysis of contract termination effects, assistance with industry restructuring issues, and research on specialized topics |
| ■ US Ecology, Inc. Richland, Washington (a subsidiary of American Ecology Corporation, Boise, Idaho) | Ongoing rate and regulatory consulting services, including periodic filing of preliminary and final rates for low-level radioactive waste disposal, assistance with regulatory accounting matters, assistance with Washington Utilities and Transportation Commission inquiries and audits, rate analysis scenarios, general regulatory advice and assistance, cost-of-service analysis, and revenue requirement development and review in preparation for application for general rate case in Washington |

- South Carolina Budget and Control Board
Columbia, South Carolina Analytical and litigation support services relating to proceeding before South Carolina Public Service Commission in the matter of recoverable operating costs of a low-level radioactive waste facility in Barnwell, South Carolina
- Brooks & Associates
SeaTac, Washington Various projects involving rates, cost-of-service, policy analysis, and research in electric utility industry; review of testimony before Bonneville Power Administration
- Opatrny Consulting, Inc.
Battle Ground, Washington Subconsultant on rates, cost-of-service, and analytical issues for large industrial electricity consumer
- CH2M HILL
Bellevue, Washington Subconsultant on various projects, including economic evaluation of heat pump program for an electric utility, analysis of contractual rate reopener provision for group of utilities purchasing from joint projects, analysis of residential assistance plan rates, and various other projects relating to electric utility rates and regulation

Consultant (vice president)
EES Consulting, Inc.
1990–97

Economist and project manager responsible for project execution and supervision in a variety of areas, including:

- Regulatory analysis in the United States and Canada (including Federal Energy Regulatory Commission and state and provincial regulatory bodies)
- Complex rate case intervention (e.g., Bonneville Power Administration), including analysis, testimony, and case management
- Rates and cost-of-service studies
- Activity-based costing analysis
- Assistance with direct access issues, including analysis and commission applications
- Requests for proposals for power supply (issuance and evaluation)
- Contract and other negotiations
- Legislative analysis and monitoring
- Specialized research (economic, regulatory, and legal)
- Due diligence research and company intelligence
- Expert witness testimony and litigation support

- Forecasting
- Valuation studies
- Surveys (design and analysis)
- Seminars and courses (development and delivery)
- Risk management
- Project feasibility studies
- Environmental cost evaluation
- Integrated resource planning
- Demand-side management program development

Representative clients included public utility districts in Washington (Snohomish County, Clark County, Mason County No. 3, Pend Oreille County, Grays Harbor County, Lewis County), municipalities (Tacoma, Washington; Bellevue, Washington; Detroit, Michigan; Denver, Colorado; Ottawa, Ontario), utility associations (Western Public Agencies Group, Washington; Conservation and Renewable Energy System, Oregon; Municipal Electric Association, Ontario; Western Montana Generation & Transmission Cooperative, Texas Municipal Power Agency), investor-owned, cooperative, and government-owned utilities (West Kootenay Power Ltd., British Columbia; Lower Valley Power & Light Company, Wyoming; Northwest Territories Power Corporation, New Jersey–American Water Company), private companies (US Ecology, Inc.; members of the Industrial Customers of Idaho Power; Hewlett-Packard; Birmingham Steel), government agencies (Washington State Department of Health; Greater Vancouver Regional District, British Columbia; Central Utah Water Conservancy District), law firms (Perkins Coie, Davis Wright Tremaine LLP), and engineering firms (HDR Engineering, Inc.).

Management consultant
Regional accounting firm
1989–90

Member of the management advisory services department providing business planning services, support for private placements and other securities issues, mergers and acquisitions support, and economic analysis of industries. Clients included startup ventures and small businesses seeking venture capital and other funding.

Economist
CH2M HILL
1987–89

Project economist providing research and quantitative analysis for electric, gas, and solid waste utility forecasting, and population forecasting; rate and cost-of-service studies; bond issues; power supply planning; valuation studies; mergers and acquisitions; environmental impact statements; and policy analysis. Clients included

Southern California Edison, Anchorage Municipal Light & Power, Port of Vancouver (British Columbia), Grant County (Washington) Public Utility District, Mukilteo School District, Snohomish County (Washington) Solid Waste Division, King County (Washington) Solid Waste Division, and the United States Bureau of Reclamation.

Independent consultant
1984–87

Research assistant and consultant on antitrust, energy issues (including forecasting and demand-side management), market studies, and business planning issues. Clients included university professors and their expert witness clients, including law firms and businesses involved in antitrust and other economic-related litigation.

Academic Affiliations

Associate (Adjunct) Faculty, Business Administration Division, Shoreline Community College, Seattle, 2000–02 (teaching practical accounting, business school financial accounting, managerial accounting, accounting theory, and summer intensive financial accounting)

Associate (Adjunct) Faculty, Business Division, North Seattle Community College, Seattle, 2001–02 (teaching introductory accounting and business tax accounting)

Education

Bachelor of Arts, Economics, University of Washington, Seattle, 1988

Courses in accounting (financial accounting, cost accounting, auditing, and accounting information systems), North Seattle Community College, Seattle, 1999–2000

Professional Societies and Recognitions

American Economic Association, member since 1987

American Institute of Certified Public Accountants, member (non-CPA) since 1999

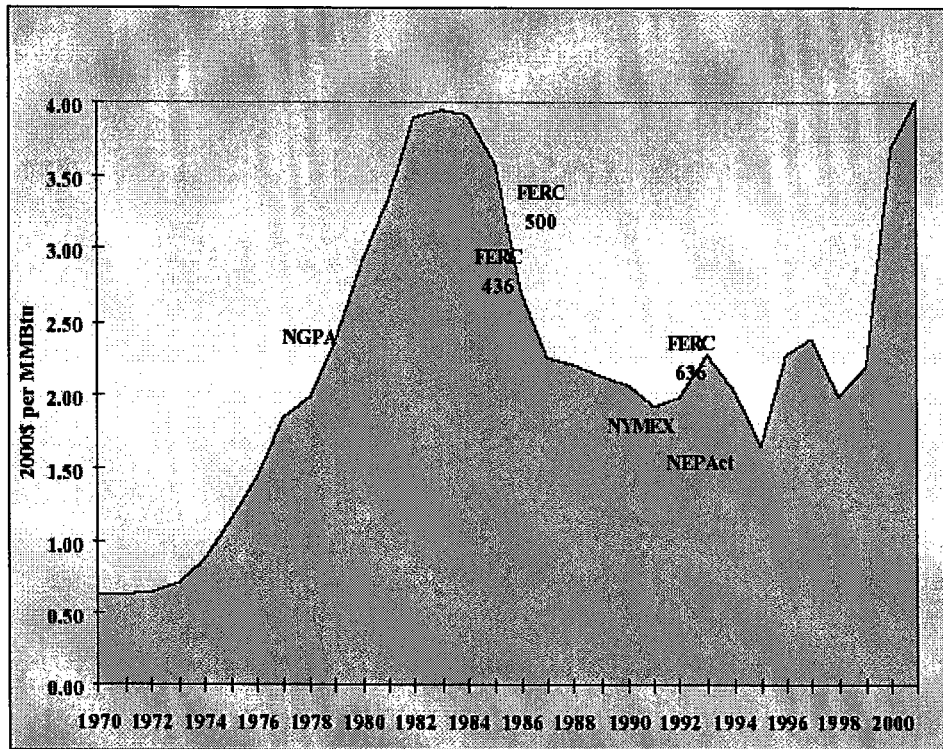
Washington Society of Certified Public Accountants, member (non-CPA) since 1999

Who's Who in America®—West, 27th Edition (1999)

EXHIBIT NO. 602

HISTORY OF NATURAL GAS PRICES

Figure 6
History US Wellhead Natural Gas Prices



Source: Draft Fuel Price Forecasts for the 5th Northwest Conservation and Electric Power Plan, April 25, 2002 (Council Document 2002-07), at 15.

EXHIBIT NO. 603

RECOMMENDED NATURAL GAS PRICE FORECAST

(NPPC MEDIUM-HIGH)

Independent Energy Producers of Idaho Analysis of Northwest Power Planning Council (NPPC) Natural Gas Price Forecasts

SATT — 2002 July 22 (Monday), 13:13

General inflation rate: 2.7% per year

Year	Medium-High Forecast							
	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Without Initial-Year Price Averaging				With Initial-Year Price Averaging			
	Real Price (East-Side Delivered)	Annual Real Escalation	Nominal Price by Year	Annual Nominal Escalation	Average Annual Growth Rate Since 2002	Nominal Price by Year	Annual Nominal Escalation	Average Annual Growth Rate Since 2002
	(2000 \$ per MMBtu)		(per MMBtu)			(per MMBtu)		
2000	\$ 3.75		\$ 3.75					
2001	4.48	19.5%	4.60	22.7%				
2002	3.01	-32.8%	3.17	-31.0%	21.8%	\$ 3.84	0.7%	0.7%
2003	3.57	18.6%	3.87	21.8%	10.3%	3.86	-0.2%	0.2%
2004	3.47	-2.8%	3.86	-0.2%	6.6%	3.85	-0.3%	0.1%
2005	3.37	-2.9%	3.85	-0.3%	6.4%	4.07	5.7%	1.5%
2006	3.47	3.0%	4.07	5.7%	5.7%	4.19	3.0%	1.8%
2007	3.48	0.3%	4.19	3.0%	5.3%	4.32	3.0%	2.0%
2008	3.49	0.3%	4.32	3.3%	5.0%	4.46	3.3%	2.2%
2009	3.51	0.6%	4.46	3.3%	4.7%	4.59	3.0%	2.3%
2010	3.52	0.3%	4.59	3.0%	4.6%	4.77	3.9%	2.4%
2011	3.56	1.1%	4.77	3.9%	4.5%	4.94	3.6%	2.6%
2012	3.59	0.8%	4.94	3.6%	4.5%	5.13	3.8%	2.7%
2013	3.63	1.1%	5.13	3.8%	4.4%	5.31	3.5%	2.7%
2014	3.66	0.8%	5.31	3.5%	4.3%	5.52	3.8%	2.8%
2015	3.70	1.1%	5.52	3.8%	4.3%	5.71	3.5%	2.9%
2016	3.73	0.8%	5.71	3.5%	4.3%	5.93	3.8%	2.9%
2017	3.77	1.1%	5.93	3.8%	4.2%	6.14	3.5%	3.0%
2018	3.80	0.8%	6.14	3.5%	4.2%	6.37	3.8%	3.0%
2019	3.84	1.1%	6.37	3.8%	4.1%	6.59	3.5%	3.0%
2020	3.87	0.8%	6.59	3.5%	4.1%	6.82	3.5%	3.1%
2021	3.90	0.8%	6.82	3.5%	4.1%	7.04	3.2%	3.1%
2022	3.92	0.5%	7.04	3.2%	4.0%	7.29	3.5%	3.1%
2023	3.95	0.8%	7.29	3.5%	4.0%	7.54	3.5%	3.1%
2024	3.98	0.8%	7.54	3.5%	4.0%	7.79	3.2%	3.1%
2025	4.00	0.5%	7.79	3.2%				

EXHIBIT NO. 603
Trippel, Stuart A. T.

EXHIBIT NO. 604

ALTERNATE NATURAL GAS PRICE FORECAST

(NPPC HIGH)

Independent Energy Producers of Idaho Analysis of Northwest Power Planning Council (NPPC) Natural Gas Price Forecasts

SATT — 2002 July 22 (Monday), 13:13

General inflation rate: 2.7% per year

Year	High Forecast							
	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8
	Without Initial-Year Price Averaging				With Initial-Year Price Averaging			
	Real Price (East-Side Delivered)	Annual Real Escalation	Nominal Price by Year	Annual Nominal Escalation	Average Annual Growth Rate Since 2002	Nominal Price by Year	Annual Nominal Escalation	Average Annual Growth Rate Since 2002
	(2000 \$ per MMBtu)				(per MMBtu)			
2000	\$ 3.75		\$ 3.75					
2001	4.48	19.5%	4.60	22.7%				
2002	3.21	-28.3%	3.39	-26.4%		\$ 3.91	6.0%	6.0%
2003	3.83	19.3%	4.15	22.5%	22.5%	4.15	-2.9%	1.5%
2004	3.62	-5.5%	4.03	-2.9%	9.1%	4.03	1.0%	1.3%
2005	3.56	-1.7%	4.07	1.0%	6.3%	4.07	6.2%	2.5%
2006	3.68	3.4%	4.32	6.2%	6.3%	4.32	3.8%	2.8%
2007	3.72	1.1%	4.48	3.8%	5.8%	4.48	3.8%	2.9%
2008	3.76	1.1%	4.65	3.8%	5.4%	4.65	3.8%	3.1%
2009	3.80	1.1%	4.83	3.8%	5.2%	4.83	3.8%	3.1%
2010	3.84	1.1%	5.01	3.8%	5.0%	5.01	3.8%	3.2%
2011	3.88	1.0%	5.20	3.8%	4.9%	5.20	4.0%	3.3%
2012	3.93	1.3%	5.41	4.0%	4.8%	5.41	3.7%	3.3%
2013	3.97	1.0%	5.61	3.7%	4.7%	5.61	4.0%	3.4%
2014	4.02	1.3%	5.84	4.0%	4.6%	5.84	4.0%	3.4%
2015	4.07	1.2%	6.07	4.0%	4.6%	6.07	4.0%	3.5%
2016	4.12	1.2%	6.31	4.0%	4.5%	6.31	4.0%	3.5%
2017	4.16	1.0%	6.54	3.7%	4.5%	6.54	3.7%	3.5%
2018	4.21	1.2%	6.80	3.9%	4.5%	6.80	3.9%	3.5%
2019	4.26	1.2%	7.07	3.9%	4.4%	7.07	3.9%	3.5%
2020	4.30	0.9%	7.33	3.7%	4.4%	7.33	3.7%	3.5%
2021	4.35	1.2%	7.61	3.9%	4.4%	7.61	3.9%	3.6%
2022	4.40	1.1%	7.91	3.9%	4.3%	7.91	3.9%	3.6%
2023	4.45	1.1%	8.21	3.9%	4.3%	8.21	3.9%	3.6%
2024	4.49	0.9%	8.51	3.6%	4.3%	8.51	3.6%	3.6%
2025	4.54	1.1%	8.84	3.8%	4.3%	8.84	3.8%	3.6%

EXHIBIT NO. 604
Trippel, Stuart A. T.

EXHIBIT NO. 605

AVOIDED COST RATES UNDER RECOMMENDATIONS

AVOIDED COST CALCULATION MODEL
22-Jul-02

DATA TYPE	IPCO DATA		
FIRST DEFICIT YEAR:	2000		
SURPLUS ENERGY COST (mil/kWh):	19.00		
SURPLUS COST BASE YEAR:	1994		
"SAR" PLANT LIFE (YEARS):	30		
"SAR" PLANT COST (\$/kW):	\$667		
BASE YEAR OF "SAR" COST:	1994		
"SAR" CAPACITY FACTOR (%):	92%	7,350 Btu/kWh	
UTLTY WT'D COST OF CAPITAL (%):	9.199%		
RATEPAYER DISCOUNT RATE (%):	9.199%	\$3.84 per MMBtu	
"SAR" FIXED O&M (\$/kW):	\$7.43		
"SAR" VARIABLE O&M (mil/kWh):	1.65		
CURRENT YEAR FUEL COST (mil/kWh):	28.22		
BASE YEAR, O&M EXPENSES:	1994	20-year K Levelized	Online Year
ESCALATION RATE; "SAR" (%):	3.60%	51.40	2002
ESCALATION RATE; SURPLUS (%):	4.50%	53.05	2003
ESCALATION RATE; O&M (%):	3.21%	54.77	2004
ESCALATION RATE; FUEL (%):	3.10%	56.53	2005
ADJUSTABLE PORTION (mil/kWh):	0.00	58.36	2006
CAPITAL CARRYING CHARGE (%):	12.424%	60.24	2007
LEVEL CARRYING COST (mil/kWh):	12.27		
"TILTING" RATE (%):	3.60%	mills/kWh	
TYPE OF RATES:	NON-FUELED		
CURRENT YEAR:	2002		

AVOIDED COST CALCULATION MODEL
22-Jul-02

DATA TYPE	AVISTA DATA		
FIRST DEFICIT YEAR:	2000		
SURPLUS ENERGY COST (mil/kWh):	19.00		
SURPLUS COST BASE YEAR:	1994		
"SAR" PLANT LIFE (YEARS):	30		
"SAR" PLANT COST (\$/kW):	\$667		
BASE YEAR OF "SAR" COST:	1994	7,350	
"SAR" CAPACITY FACTOR (%):	92%	Btu/kWh	
UTLTY WT'D COST OF CAPITAL (%):	8.979%		
RATEPAYER DISCOUNT RATE (%):	8.979%	\$3.84	
"SAR" FIXED O&M (\$/kW):	\$7.43	per MMBtu	
"SAR" VARIABLE O&M (mil/kWh):	1.65		
CURRENT YEAR FUEL COST (mil/kWh):	28.22		
BASE YEAR, O&M EXPENSES:	1994	20-year K	
ESCALATION RATE; "SAR" (%):	3.60%	Levelized	Online Year
ESCALATION RATE; SURPLUS (%):	4.50%	50.85	2002
ESCALATION RATE; O&M (%):	3.21%	52.49	2003
ESCALATION RATE; FUEL (%):	3.10%	54.18	2004
ADJUSTABLE PORTION (mil/kWh):	0.00	55.92	2005
CAPITAL CARRYING CHARGE (%):	11.813%	57.73	2006
LEVEL CARRYING COST (mil/kWh):	11.67	59.59	2007
"TILTING" RATE (%):	3.60%	mills/kWh	
TYPE OF RATES:	NON-FUELED		
CURRENT YEAR:	2002		

AVOIDED COST CALCULATION MODEL
22-Jul-02

DATA TYPE	PCP DATA		
FIRST DEFICIT YEAR:	2000		
SURPLUS ENERGY COST (mil/kWh):	19.00		
SURPLUS COST BASE YEAR:	1994		
"SAR" PLANT LIFE (YEARS):	30		
"SAR" PLANT COST (\$/kW):	\$667		
BASE YEAR OF "SAR" COST:	1994	7,350	
"SAR" CAPACITY FACTOR (%):	92%	Btu/kWh	
UTLTY WT'D COST OF CAPITAL (%):	10.270%		
RATEPAYER DISCOUNT RATE (%):	10.270%	\$3.84	
"SAR" FIXED O&M (\$/kW):	\$7.43	per MMBtu	
"SAR" VARIABLE O&M (mil/kWh):	1.65		
CURRENT YEAR FUEL COST (mil/kWh):	28.22		
BASE YEAR, O&M EXPENSES:	1994	20-year K	
ESCALATION RATE; "SAR" (%):	3.60%	Levelized	Online Year
ESCALATION RATE; SURPLUS (%):	4.50%	51.35	2002
ESCALATION RATE; O&M (%):	3.21%	53.00	2003
ESCALATION RATE; FUEL (%):	3.10%	54.72	2004
ADJUSTABLE PORTION (mil/kWh):	0.00	56.48	2005
CAPITAL CARRYING CHARGE (%):	12.600%	58.31	2006
LEVEL CARRYING COST (mil/kWh):	12.45	60.19	2007
"TILTING" RATE (%):	3.60%	mills/kWh	
TYPE OF RATES:	NON-FUELED		
CURRENT YEAR:	2002		